



PTO/SB/08a (11-08)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number 09/586,704-Conf. #7559
Filing Date June 5, 2000
First Named Inventor Ralph M. Steinman
Art Unit 1644
Examiner Name R. B. Schwadron
Attorney Docket Number RUJ-001CNRCE2

Sheet 1 of 12

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number/Kind Code ² (if known)			
	A1*	US-4,474,893	10-02-1984	Reading	
	A2*	US-4,946,778	08-07-1990	Ladner et al.	
	A3*	US-4,954,617	09-04-1990	Fanger et al.	
	A4*	US-5,455,030	10-03-1995	Ladner et al.	
	A5*	US-5,476,786	12-19-1995	Huston	
	A6*	US-5,545,807	08-13-1996	Surani et al.	
	A7*	US-5,869,057	02-09-1999	Rock	
	A8*	US-5,876,917	03-02-1999	Hart et al.	
	A9*	US-5,922,845	07-13-1999	Deo et al.	
	A10*	US-6,080,409	06-27-2000	Laus et al.	
	A11*	US-6,277,959	08-21-2001	Valladeau et al.	
	A12*	US-6,340,569	01-22-2002	Ball et al.	
	A13*	US-6,479,247-A1	11-12-2002	Hart et al.	
	A14*	US-20020187131-A1	12-12-2002	Hawiger et al.	
	A15*	US-6,756,478-A1	06-29-2004	Valladeau et al.	
	A16*	US-20040001853-A1	01-01-2004	George et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	B1	WO-86/01533-A1	03-13-1986	Celltech Limited		
	B2	WO-88/00052-A1	01-14-1988	Trustees of Dartmouth College		
	B3	WO-92/07579-A1	05-14-1992	The Children's Medical Center Corporation		
	B4	WO-92/03918-A1	03-19-1992	Genpharm International, Inc.		
	B5	WO-93/04187-A1	03-04-1993	Medical Research Council		
	B6	WO-93/12227-A1	06-24-1993	Genpharm International, Inc.		

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.S./

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	B19	WO-00/00156-A2	01-06-2000	Trustees of Dartmouth College		
	B20	WO-00/00592-A1	01-06-2000	Bae, Yong Soo et al.		
	B21	WO-00/18803-A2	04-06-2000	Schering Corporation		
	B22	WO-00/63251-A1	10-26-2000	Katholieke Universiteit Nijmegen		
	B23	WO-01/25492-A1	04-12-2001	Biosite Diagnostics Inc. et al.		
	B24	WO-01/85798-A2	11-15-2001	Medarex, Inc.		

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	C1	Apostolopoulos, Vasso et al, "Ex vivo targeting of the macrophage mannose receptor generates anti-tumor CTL responses," <i>Vaccine</i> , Vol. 18:3174-3184 (2000)		
	C2	Berard, Frederic et al, "Cross-Priming of Naive CD8 T Cells against Melanoma Antigens Using Dendritic Cells Loaded with Killed Allogeneic Melanoma Cells," <i>J. Exp. Med.</i> , Vol. 192(11):1535-1543 (2000)		
	C3	Berlyn, Kathleen A. et al, "Generation of CD4+ and CD8+ T Lymphocyte Responses by Dendritic Cells Armed with PSA/Anti-PSA (Antigen/Antibody) Complexes," <i>Clinical Immunology</i> , Vol. 101(3):276-283 (2001)		
	C4	Bird, Robert E. et al, "Single-Chain Antigen-Binding Proteins," <i>Science</i> , Vol. 242(4877):423-426 (1988)		
	C5	Brennan, Maureen et al, "Preparation of Bispecific Antibodies by Chemical Recombination of Monoclonal Immunoglobulin G1 Fragments," <i>Science</i> , Vol. 229:81-83 (1985)		
	C6	Casset, Florence et al, "A peptide mimetic of an anti-CD4 monoclonal antibody in rational design," <i>Biochemical and Biophysical Research Communications</i> , Vol. 307:198-205 (2003)		
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³Applicant's unique citation designation number (optional). ⁴Applicant is to place a check mark here if English language Translation is attached.

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	C7	Chen, Yvonne et al., "Selection and Analysis of an Optimized Anti-VEGF Antibody: Crystal Structure of an Affinity-matured Fab in Complex with Antigen," <i>J. Mol. Biol.</i> , Vol. 293:865-881 (1999)					
	C8	Chien, Nadine C. et al., "Significant structural and functional change of an antigen-binding site by a distant amino acid substitution: Proposal of a structural mechanism," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 86:5532-5536 (1989)					
	C9	Cox, John C. et al., "Adjuvants - a classification and review of their modes of action," <i>Vaccine</i> , Vol. 15(3):248-256 (1997)					
	C10	De Pascalis, Roberto et al., "Grafting of 'Abbreviated' Complementarity-Determining Regions Containing Specificity-Determining Residues Essential for Ligand Contact to Engineer a Less Immunogenic Humanized Monoclonal Antibody," <i>The Journal of Immunology</i> , Vol. 169:3076-3084 (2002)					
	C11	Frleta, Davor et al., "Class II-targeted antigen is superior to CD40-targeted antigen at stimulating humoral responses in vivo," <i>International Immunopharmacology</i> , Vol. 1:265-275 (2001)					
	C12	Galfre, G. et al., "Antibodies to major histocompatibility antigens produced by hybrid cell lines," <i>Nature</i> , Vol. 266(7):550-552 (1977)					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 2px;">Examiner Signature</td> <td style="width: 55%; padding: 2px;">/Ronald Schwadron/</td> <td style="width: 15%; padding: 2px;">Date Considered</td> <td style="width: 15%; padding: 2px;">04/25/2010</td> </tr> </table>				Examiner Signature	/Ronald Schwadron/	Date Considered	04/25/2010
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	C13	Geissmann, Frédéric et al., "A Subset of Human Dendritic Cells Expresses IgA Fc Receptor (CD89), Which Mediates Internalization and Activation Upon Cross-Linking by IgA Complexes," <i>The Journal of Immunology</i> , Vol. 166:346-352 (2001)	
	C14	Glennie, Martin J. et al., "Preparation and Performance of Bispecific F(ab') ₂ Antibody Containing Thioether-Linked Fab'γ Fragments," <i>The Journal of Immunology</i> , Vol. 139(7):2367-2375 (1987)	
	C15	Hawiger, Daniel et al., "Dendritic Cells Induce Peripheral T Cell Unresponsiveness Under Steady State Conditions In Vivo," <i>J. Exp. Med.</i> , Vol. 194(6):769-779 (2001)	
	C16	He, Li-Zhen et al., "A Novel Human Cancer Vaccine Elicits Cellular Responses to the Tumor-Associated Antigen, Human Chorionic Gonadotropin β," <i>Clinical Cancer Research</i> , Vol. 10:1920-1927 (2004)	
	C17	He, Lizhen et al., "An Antigen Presenting Cell-Targeted Cancer Vaccine that Elicits CD4 and CD8 Effector Responses to the hCGβ Tumor-Associated Antigen," <i>Proceedings of the American Association for Cancer Research</i> , Vol. 44, 2nd ed., pg. 167 (2003)	
	C18	Inaba, Kayo et al., "Tissue Distribution of the DEC-205 Protein That Is Detected by the Monoclonal Antibody NLDC-145, I. Expression on Dendritic Cells and Other Subsets of Mouse Leukocytes," <i>Cellular Immunology</i> , Vol. 163:148-156 (1995)	
	C19	Janeway, Charles A. Jr. et al., "Localized regions of hypervariable sequence form the antigen-binding site," <i>Immunobiology</i> , 6 th Edition, Garland Science, Chpt. 3, pgs. 110-112 (2004)	
	C20	Jiang, Wanping et al., "The receptor DEC-205 expressed by dendritic cells and thymic epithelial cells is involved in antigen processing," <i>Nature</i> , Vol. 375:151-155 (1995)	

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	C21	Karpovsky, Boris et al, "Production of Target-Specific Effector Cells Using Hetero-Cross-Linked Aggregates Containing Anti-Target Cell and Anti-Fcγ Receptor Antibodies," <i>Journal of Experimental Medicine</i> , Vol. 160:1686-1701 (1984)	
	C22	Kawakami, Yutaka et al, "The Use of Melanosomal Proteins in the Immunotherapy of Melanoma," <i>Journal of Immunotherapy</i> , Vol. 21(4):237-246 (1998)	
	C23	Kobayashi, Hiroyuki et al, "Tryptophan H33 plays an important role in pyrimidine (6-4) pyrimidone photoproduct binding by a high-affinity antibody," <i>Protein Engineering</i> , Vol. 12(10):879-884 (1999)	
	C24	Lamminmäki, Urpo et al., "Crystal Structure of a Recombinant Anti-estradiol Fab Fragment in Complex with 17β-Estradiol," <i>The Journal of Biological Chemistry</i> , Vol. 276(39):36687-36694 (2001)	
	C25	Liu, Margaret A. et al, "Heteroantibody duplexes target cells for lysis by cytotoxic T lymphocytes," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 82:8648-8652 (1985)	
	C26	Lonberg, Nils et al, "Antigen-specific human antibodies from mice comprising four distinct genetic modifications," <i>Nature</i> , Vol. 368:856-859 (1994)	
	C27	MacCallum, Robert M. et al., "Antibody-antigen Interactions: Contact Analysis and Binding Site Topography," <i>J. Mol. Biol.</i> , Vol. 262:732-745 (1996)	

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	C28	McKown, Kevin M. et al., "Lack of Efficacy of Oral Bovine Type II Collagen Added to Existing Therapy in Rheumatoid Arthritis," <i>Arthritis & Rheumatism</i> , Vol. 42 (6):1204-1208 (1999)	
	C29	Mestas, Javier et al., "Of Mice and Not Men: Differences between Mouse and Human Immunology," <i>The Journal of Immunology</i> , Vol. 172:2731-2738 (2004)	
	C30	Monteiro, Renato C. et al., "Molecular Heterogeneity of Fcα Receptors Detected by Receptor-Specific Monoclonal Antibodies," <i>The Journal of Immunology</i> , Vol. 148(6):1764-1770 (1992)	
	C31	Noorman, Femke et al., "Monoclonal antibodies against the human mannose receptor as a specific marker in flow cytometry and immunohistochemistry for macrophages," <i>Journal of Leukocyte Biology</i> , Vol. 61:63-72 (1997)	
	C32	Nossal, "Immunologic Tolerance," <i>Fundamentals of Immunology</i> , 2 nd Edition, Paven Press Ltd., W.E. Paul (Ed.), Chpt. 19, pgs. 571-586 (1989)	
	C33	Nouri-Shirazi, Mahyar et al., "Dendritic Cells Capture Killed Tumor Cells and Present Their Antigens to Elicit Tumor-Specific Immune Response," <i>The Journal of Immunology</i> , Vol. 165:3797-3803 (2000)	
	C34	Paulus, H., "Preparation and Biomedical Applications of Bispecific Antibodies," <i>Behring Inst. Mitt.</i> , Vol. 78:118-132 (1985)	
	C35	Potter, Kathleen N. et al., "Evidence for Involvement of a Hydrophobic Patch in Framework Region 1 of Human V4-34-Encoded Igs in Recognition of the Red Blood Cell I Antigen," <i>The Journal of Immunology</i> , Vol. 169:3777-3782 (2002)	

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Substitute for form 1449/PTO <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 10px 0;">(Use as many sheets as necessary)</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left; padding: 2px;">Complete if Known</th> </tr> <tr> <td style="width: 30%; padding: 2px;">Application Number</td> <td style="padding: 2px;">09/586,704-Conf. #7559</td> </tr> <tr> <td style="padding: 2px;">Filing Date</td> <td style="padding: 2px;">June 5, 2000</td> </tr> <tr> <td style="padding: 2px;">First Named Inventor</td> <td style="padding: 2px;">Ralph M. Steinman</td> </tr> <tr> <td style="padding: 2px;">Art Unit</td> <td style="padding: 2px;">1644</td> </tr> <tr> <td style="padding: 2px;">Examiner Name</td> <td style="padding: 2px;">R. B. Schwadron</td> </tr> <tr> <td style="padding: 2px;">Attorney Docket Number</td> <td style="padding: 2px;">RUJ-001CNRCE2</td> </tr> </table>		Complete if Known		Application Number	09/586,704-Conf. #7559	Filing Date	June 5, 2000	First Named Inventor	Ralph M. Steinman	Art Unit	1644	Examiner Name	R. B. Schwadron	Attorney Docket Number	RUJ-001CNRCE2
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	C36	Ramakrishna, Vanky et al, "Mannose Receptor Targeting of Tumor Antigen pmel17 to Human Dendritic Cells Directs Anti-Melanoma T Cell Responses via Multiple HLA Molecules," <i>The Journal of Immunology</i> , Vol. 172:2845-2852 (2004)	
	C37	Ramakrishna, Venky et al, "Synergistic Role of TLR Agonists in T Cell-Mediated Immunity Induced by Mannose Receptor Antibody Targeting of Tumor Antigens to Human DCs," <i>J. Immunother.</i> , Vol. 28(6):658 (2005)	
	C38	Rudikoff, Stuart et al, "Single amino acid substitution altering antigen-binding specificity," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 79:1979-1983 (1982)	
	C39	Sallusto, Federica et al, "Dendritic Cells Use Macropinocytosis and the Mannose Receptor to Concentrate Macromolecules in the Major Histocompatibility Complex Class II Compartment: Downregulation by Cytokines and Bacterial Products," <i>J. Exp. Med.</i> , Vol. 182:389-400 (1995)	
	C40	Spack, E.G., "Antigen-specific therapies for the treatment of multiple sclerosis: a clinical trial update," <i>Expert Opin. Investig. Drugs</i> , Vol. 6(11):1715-1727 (1997)	
	C41	Swiggard, William J. et al., "DEC-205, a 205-kDa Protein Abundant on Mouse Dendritic Cells and Thymic Epithelium That is Detected by the Monoclonal Antibody NLDC-145: Purification, Characterization, and N-Terminal Amino Acid Sequence," <i>Cellular Immunology</i> , Vol. 165:302-311 (1995)	
	C42	Taylor, Lisa D. et al., "A transgenic mouse that expresses a diversity of human sequence heavy and light chain immunoglobulins," <i>Nucleic Acids Research</i> , Vol. 20(23):6287-6295 (1992)	
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	C43	Tempest, Philip R. et al., "A Humanized Anti-Tumor Necrosis Factor- α Monoclonal Antibody That Acts as a Partial, Competitive Antagonist of the Template Antibody," <i>Hybridoma</i> , Vol. 13(3):183-190 (1994)	
	C44	Tjoa, Benjamin A. et al., "Development of dendritic-cell based prostate cancer vaccine," <i>Immunology Letters</i> , Vol. 74:87-93 (2000)	
	C45	Tufveson, G. et al., "New Immunosuppressants: Testing and Development in Animal Models and the Clinic: with Special Reference to DSG," <i>Immunological Reviews</i> , Vol. 136(1):99-109 (1993)	
	C46	Tüting, Thomas et al., "Autologous Human Monocyte-Derived Dendritic Cells Genetically Modified to Express Melanoma Antigens Elicit Primary Cytotoxic T Cell Responses In Vitro: Enhancement by Cotransfection of Genes Encoding the Th1-Biasing Cytokines IL-12 and IFN- α ," <i>The Journal of Immunotherapy</i> , Vol. 160:1139-1147 (1998)	
	C47	Wallace, Paul K. et al., "Exogenous antigen targeted to Fc γ RI on Myeloid cells is presented in association with MHC class I," <i>Journal of Immunological Methods</i> , Vol. 248:183-194 (2001)	
	C48	Wang, Hui et al., "Rapid antibody responses by low-dose, single-step, dendritic cell-targeted immunization," <i>PNAS</i> , Vol. 96(2):847-852 (2000)	
	C49	Ward, E. Sally et al., "Binding activities of a repertoire of single immunoglobulin variable domains secreted from <i>Escherichia coli</i> ," <i>Nature</i> , Vol. 341:544-546 (1989)	
	C50	You, Zhaoyang et al., "Targeting Dendritic Cells to Enhance DNA Vaccine Potency," <i>Cancer Research</i> , Vol. 61:3704-3711 (2001)	

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